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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,501	01/16/2007	Tsuneki Wakita	295110US0PCT	8302
22850 7556 092222916 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET			EXAMINER	
			WOODWARD, ANA LUCRECIA	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			02/22/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

## Application No. Applicant(s) 10/589,501 WAKITA ET AL. Office Action Summary Examiner Art Unit Ana L. Woodward 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 November 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1.2 and 5-15 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date \_\_\_\_\_\_

Notice of Informal Patent Application

6) Other:

Application/Control Number: 10/589,501 Page 2

Art Unit: 1796

## DETAILED ACTION

#### Election/Restrictions

- Applicant's election of Group I comprising the impact modifier IM-2 in the reply filed on February 23, 2099 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- Claims 3 and 4 are withdrawn from further consideration pursuant to 37 CFR
   1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on February 23, 2009.

#### Claim Rejections - 35 USC § 112

3. Claims 1, 2 and 5-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims, as amended, now require a modifier, which after irradiation, has an average particle size of 20 um or more and comprises i) less than 30% by mass of non-irradiated modifier particles having an average particle size of 10 um or less and ii) 30% by mass or more of irradiated modifier having an average particle size of 10 um or less. The specification, as originally filed, fails to provide express support for said inventive modifier, which after irradiation, still has an average particle size of 20 um or more. As

filed, it appears that the specification only provides antecedent basis for an inventive modifier having an average particle size of 20 um or more but only before it has been irradiated, as opposed to after it has been irradiated. Accordingly, the claimed subject matter is deemed to be new matter

4. Claims 1, 2 and 5-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it remains unclear as to whether applicants are claiming an irradiated, versus non-irradiated, modifier having an average particle size of 20 um or more.

In claim 1, it is unclear as to whether the language "wherein the modifier is obtained by..." is referring to the modifier in the preamble, the non-irradiated modifier or the irradiated modifier

The claims, as amended, are indefinite in that it is unclear if or how a modifier having an average particle size of 20 um or more can comprise up to 100% by mass (upper limit of presently claimed 30% by mass or more) of irradiated modifier particles having an average particle size of 10 um or less.

### Claim Rejections - 35 USC § 102/103

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent

Application/Control Number: 10/589,501 Page 4

Art Unit: 1796

granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 2 and 5-15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious U.S. 6,051,650 (Endo et al) as per reasons of record.

Graft copolymers incorporating an acrylic rubber are immediately envisaged from the small genus of suitable rubber polymers disclosed by Endo et al (column 5, lines 15-34). Specifically, patentees' genus includes diene rubbers and acrylic rubbers. The vinyl-based monomers grafted onto the rubber correspond to those presently claimed (column 5, lines 39-55). The graft copolymer of the reference necessarily comprises a core rubber component comprising a shell of vinyl-based monomers grafted thereon. The onus is shifted to applicants to establish that the product of the present claims is not the same as or obvious from that set forth by the reference.

#### Response to Arguments

 Applicant's arguments filed November 30, 2009 have been fully considered but they are not persuasive with respect to Endo et al. Application/Control Number: 10/589,501

Art Unit: 1796

Applicants' only issue regarding Endo et al is that patentees disclose a butadiene-rubber-containing graft copolymer, not an acrylic rubber-based graft copolymer. Graft copolymers incorporating an acrylic rubber, however, are immediately envisaged to one having ordinary skill in the art from the small genus of suitable rubber polymers disclosed by Endo et al (column 5, lines 15-34). Specifically, patentees' genus includes diene rubbers and acrylic rubbers. It is noted that applicants' argument that a butadiene-rubber does not equate to an acrylic rubber appears to be in conflict with their specification which teaches that "the rubbery polymer is not specifically limited and there can be used...diene-based rubber, acrylic rubber..." (page 4).

 Applicant's arguments filed November 30, 2009 have been fully considered and are persuasive with respect to JP '890 and Fukui. Accordingly, the rejections based on said references have been withdrawn.

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/589,501

Art Unit: 1796

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana L. Woodward whose telephone number is (571) 272-1082. The examiner can normally be reached on Monday, Tuesday, Thursday and Friday (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ana L. Woodward/ Primary Examiner Art Unit 1796